



AMERICAN ABRASIVE METALS CO., IRVINGTON, N.J.

*Safety!*  
WITH *Feralun Treads*

# Feralun Safety Treads

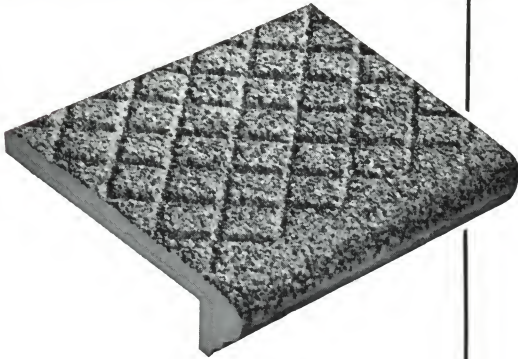
3 TYPES OF SURFACES  
4 TYPES OF METAL BASES

● FERALUN  
An Iron Base

● BRONZALUN  
A Bronze Base

● ALUMALUN  
An Aluminum Base

● NICALUN  
A Nickel Bronze Base



HATCHED SURFACE



PLAIN SURFACE



FLUTED SURFACE

## Purpose

FERALUN is a safety tread which prevents slipping on stairs and other walkway surfaces. More people are protected by Feralun than by all other types or makes of safety treads combined.

## Description

Feralun consists of a special iron casting in the walking surface of which is uniformly embedded a *slip-preventing* and *wear-resisting* abrasive material. The abrasive material slightly projects above the wearing surface, including the nosing of the stair tread, the point of greatest wear. A firm grip is thus assured to the foot whether the surface is wet, oily or dry.

Three surfaces are furnished—*hatched*, *plain* or *fluted* as illustrated. Since the non-slip properties, however, are due entirely to the abrasive material, one surface is as efficient as another.

Depending on the architectural effect desired, three metal bases other than Feralun are manufactured.

BRONZALUN—a bronze base, ALUMALUN—an aluminum base, and NICALUN—a nickel bronze base. In every feature, except the metal, they are exactly like Feralun.

## Economy of Use

Because of long wear no repairs are ever required under normal wearing conditions. Feralun eliminates accidents, damage suits are avoided and compensation rates are reduced.

## Uses and Index

1. Concrete Stairs—See page 8, Plates 1 and 2.
2. Structural Stairs—See pages 8 and 9, Plates 3, 4 and 5.
3. Door Thresholds—See page 10, Plates 9 and 10.
4. Floor Plates—See page 10, Plate 11.
5. Spiral Stairs—See page 9, Plate 6.
6. Elevator Sills—See page 9, Plates 7 and 8, and page 12.
7. Repairs—See page 10, Plate 12, and page 11.
8. And generally wherever slipping hazards are present.

## Specification

See page 11.

## Service

An engineering organization is maintained to answer problems in stairway and floor plate design. Inquiries will be gladly answered and given careful consideration.

# FERALUN SAFETY TREADS

*in*

*Color*

FOR BETTER  
VISIBILITY

In addition to the extensive line of highly effective safety treads marketed by this company we now introduce something new—an added safety feature that will strongly appeal to architects and building executives.

*Color has been added to Feralun* and it has improved the appearance of the tread and is in keeping with modern building trends.

The improved visibility is an asset because it reduces slipping hazards. The bright contrasting colors of the Feralun visibility flutes attract the eyes and serve as a warning. It is practical insurance for the owner of the building at a very low cost.

The new aluminized finish is less in cost than Alunalun and prevents rust stains.

## *Dependable Tread Metals*

These new color treads are manufactured in the same standard metals as formerly:

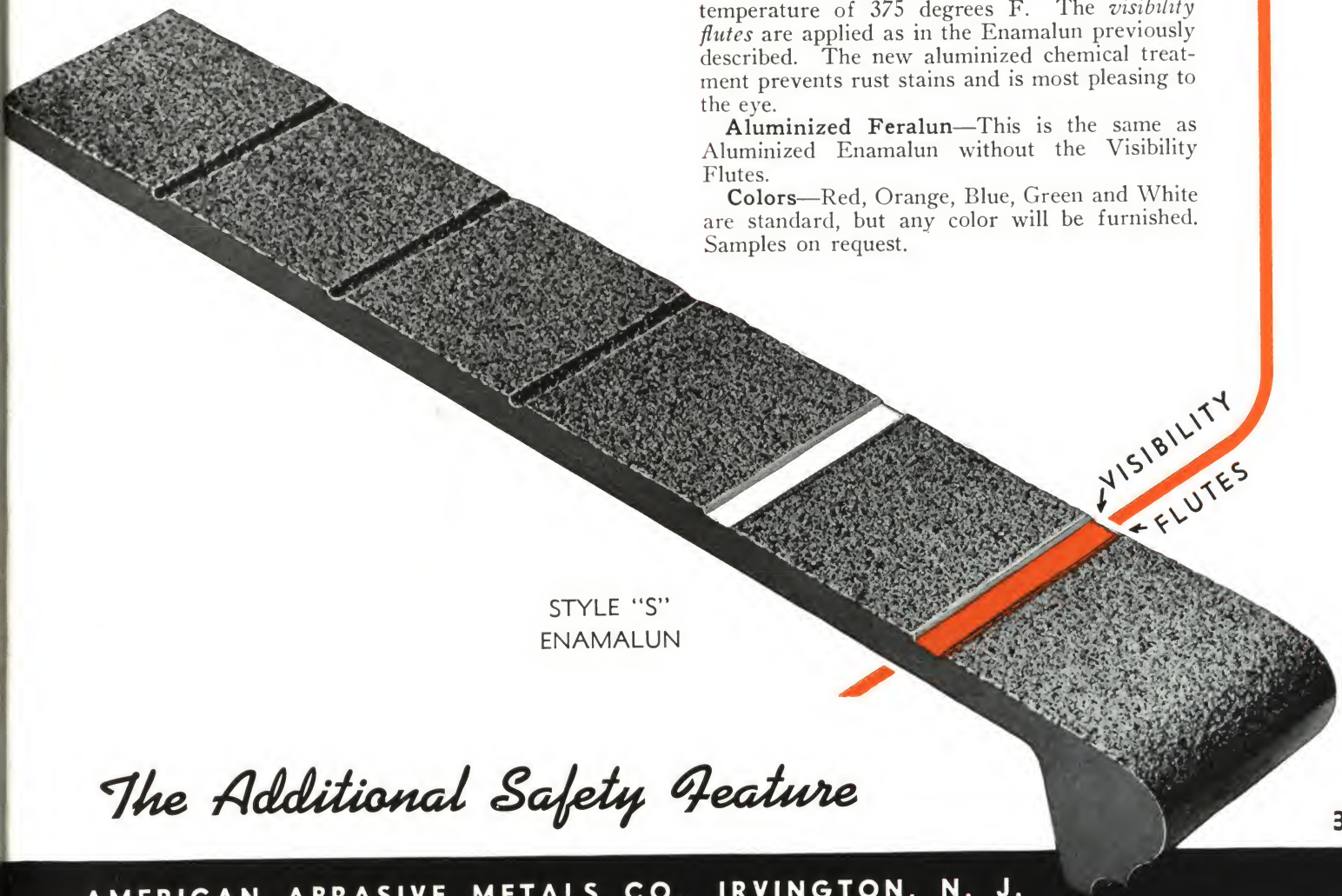
**Enamalun**—The well-known Feralun Tread with the added safety feature, VISIBILITY FLUTES in orange or in any other color.

The color in the flutes is slightly below the wearing surface of the tread and therefore is not subject to damage. The tread being Feralun, durability and anti-slip efficiency are assured.

**Aluminized Enamalun**—An attractive new bright finish. The Feralun Tread is subjected to a chemical treatment which impregnates a special aluminum material in the surface, after which it is baked for at least one hour under a minimum temperature of 375 degrees F. The *visibility flutes* are applied as in the Enamalun previously described. The new aluminized chemical treatment prevents rust stains and is most pleasing to the eye.

**Aluminized Feralun**—This is the same as Aluminized Enamalun without the Visibility Flutes.

**Colors**—Red, Orange, Blue, Green and White are standard, but any color will be furnished. Samples on request.



STYLE "S"  
ENAMALUN

*The Additional Safety Feature*

AMERICAN ABRASIVE METALS CO., IRVINGTON, N. J.

# NEW

# —SAFETY TREADS WITH VISIBILITY FLUTES IN COLOR



STYLE "A"  
ALUMINIZED  
ENAMALUN

STYLE "V"  
ENAMALUN  
(Iron)

ELEVATOR SILL  
Also made in aluminum  
and bronze

## Assured Durability

Enamalun treads have been tested on our foundry steps for over two years, where they have been subjected to the most severe wear of gritty abrasives under the impact of heavy foundry workers' shoes. They are still in fine condition.

Aluminized Feralun treads have been installed over a year ago on the stairs of a prominent Philadelphia department store and they are today in excellent condition.



STYLE "T"  
ENAMALUN  
(Iron)

Also made in aluminum  
and bronze

## How to Specify

**To Specify Enamalun**—The Anti Slip Treads shall be of cast iron with a hard abrasive uniformly impregnated in the surface and on the nosing edge. Styles, widths and lengths as shown on drawings. Treads to have two *Visibility Flutes* with the enamel slightly below the wearing surface in (specify color). Sample to be submitted for approval.

**To Specify Aluminized Enamalun**—The Anti Slip Treads shall be of cast iron with a hard abrasive uniformly impregnated in the surface and on the nosing edge, and shall be aluminized and baked. Styles, widths and lengths as shown on drawings. Treads to have two *Visibility Flutes* with the enamel slightly below the wearing surface in (specify color). Sample to be submitted for approval.

**To Specify Aluminized Feralun**—The Anti Slip Treads shall be of cast iron with a hard abrasive uniformly impregnated in the surface and on the nosing edge, and shall be aluminized and baked. Surface design to be cross hatch (or fluted or plain). Sample to be submitted for approval.

**To Specify Visibility Flutes in Other Metals**—Safety Treads (or Thresholds, etc.) where indicated shall be made of cast bronze (or aluminum or nickel bronze) with a hard abrasive uniformly impregnated in the surface and on the nosing edge. Styles, widths and lengths as shown on drawings. Treads (or thresholds) to have two *Visibility Flutes* with the enamel slightly below the wearing surface in (specify color). Samples to be submitted for approval.

## Special Finishes

Any finish will be applied to any style desired, including elevator sills.

## A Modern Touch and Greater Safety

# Wide Acceptance

These products are generally recognized as the standard Safety Tread, proven by over 10,000,000 square feet of material installed over a period of twenty-six years.

Among the many distinguished architects and engineers who specify Feralun, Bronzalun, Alumalun and Nicalun, may be mentioned—

- Arthur Brown.....San Francisco, Calif.
- Paul Cret.....Philadelphia, Pa.
- Holabird & Root.....Chicago, Ill.
- Albert Kahn.....Detroit, Mich.
- Mark Lemmon.....Dallas, Tex.
- McKim, Mead & White.....New York, N. Y.
- James Gamble Rogers.....New York, N. Y.
- Stone & Webster.....Boston, Mass.

## Facts About Feralun

Insurance and Casualty Companies recommend and approve Feralun, Bronzalun, Alumalun and Nicalun.

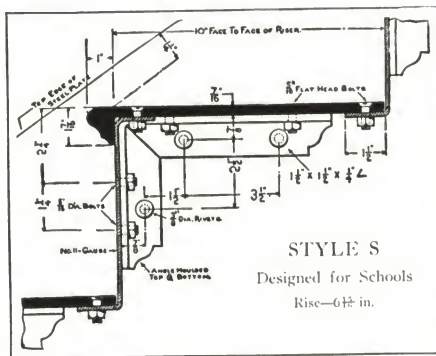
During a test period there were 141 accidents on a stairway in a prominent railway terminal. Feralun Treads were then installed and a check taken after a similar period of time elapsed showed no accidents had occurred. This is a clear demonstration of the value of Feralun. The stair in question was properly designed and well lighted, and no change was made other than a Feralun installation.

The U. S. Army Engineers found Feralun the effective material for reducing slipping on oily floors.

Feralun serves the New York Subways, the Chicago Elevated and the Boston Elevated.

Compensation rates are reduced by the use of Feralun.

## Feralun for Schools



Stairs in schools are in more constant use than in most public buildings. When made of ordinary materials these stairs will wear down, chip on the nosing edge, and become smoother and more slippery the longer they are used. Feralun is proof against all these defects and when once installed will last the life of the building and will be slip-proof.

Feralun Anti-slip Treads were installed in Washington Irving High School, New York, N. Y., in 1913. To date, no accident has been reported and no repairs necessary. The Feralun qualities of safety and durability are easily proved. Inspection of these treads is invited.

## Among Prominent Installations and Users

- |  |  |
|--|--|
| Empire State Building                    | The Department of Commerce Building, Washington, D. C. |
| Rockefeller Center                       | The Ford Motor Company                                 |
| Cincinnati Union Terminal                | Los Angeles County Hospital                            |
| General Motors Co.                       | United States Navy                                     |
| The Chicago Tribune                      | United States Army                                     |
| E. I. Du Pont de Nemours & Co., Inc.     | Sears, Roebuck & Co.                                   |
| Eastman Kodak Co.                        | The New York Times                                     |
| The Archives Building, Washington, D. C. | Harvard University                                     |
|  | General Electric Co.                                   |

lun, Bronzalun, Alumalun and Nicalun. Twenty-two chain store organizations specify these products as a protection against slipping on stairs and door thresholds.

Feralun, Bronzalun, Alumalun and Nicalun are produced in the largest plant in the world devoted exclusively to the manufacture of abrasive metals. The originators of Feralun have had twenty-six years of experience, a record unsurpassed in its field. There is no guesswork about Feralun, no unproven statements. Feralun has stood the test of time and is a standard by which other treads are judged. Owning and operating our own plant assures accuracy and uniformity of our products.

**Feralun Abrasive Grains**—For surfacing new concrete, terrazzo, and composition flooring, to retard slipping and to add longer life. Write for details.

## Feralun Spiral Stairs

Feralun Spiral Treads and Platforms are cast complete in one piece with collar and flange or riser. Hole in collar is made for a 3½ or 4 in. o.d. pipe. The length of treads vary from 22 to 48 in.

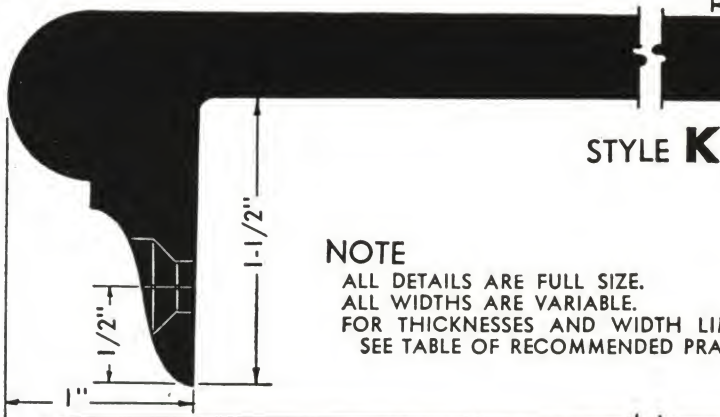
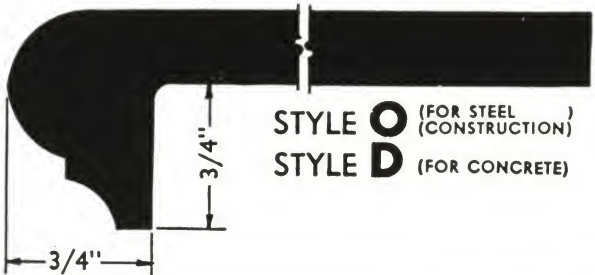
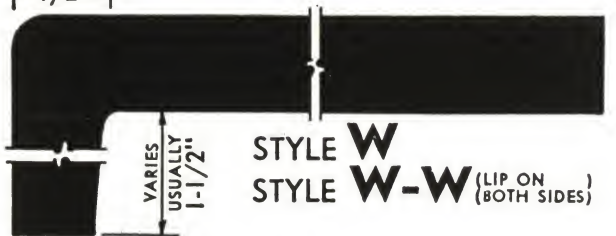
Riser of each tread rests on tread of step below; from 12 to 16 treads to the circle. Riser heights and number of treads to the circle are dependent upon height between floors. In order that sufficient head-room be provided under top platform, risers should have a minimum height of 8 in. Hand rail spindles and center pipe furnished by others.



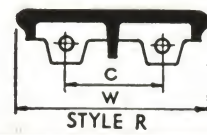
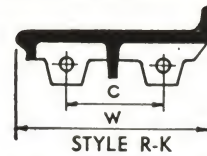
Spiral Staircase with Feralun Treads

# FERALUN BRONZALUN ALUMALUN NICALUN

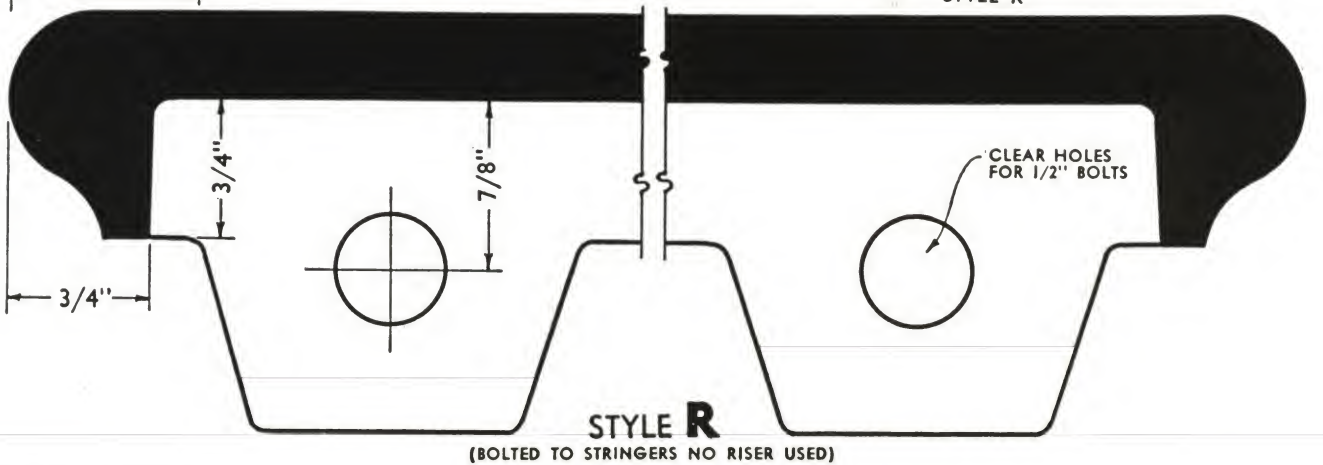
ANTI-SLIP ABRASIVE METALS



**NOTE**  
ALL DETAILS ARE FULL SIZE.  
ALL WIDTHS ARE VARIABLE.  
FOR THICKNESSES AND WIDTH LIMITATIONS  
SEE TABLE OF RECOMMENDED PRACTICE.

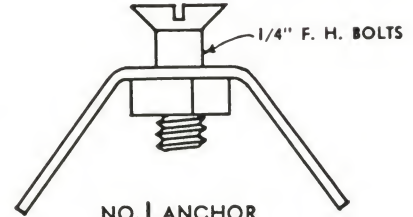
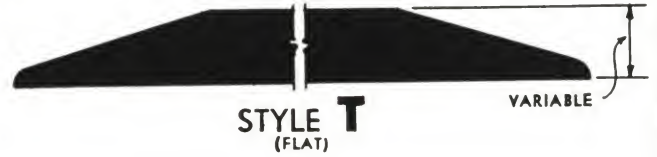


WIDTH OF TREAD "W"	"C"
5"	2"
6"	3"
7"	3 1/2"
8"	4"
9"	5"
10"	6"



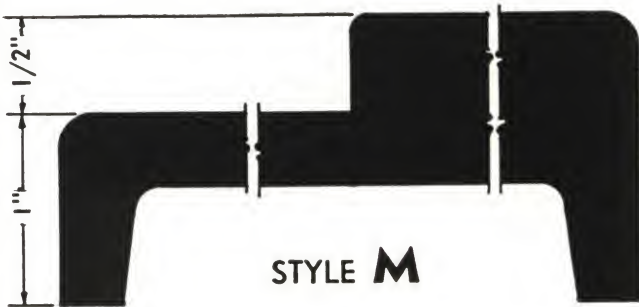
# FERALUN BRONZALUN ALUMALUN NICALUN

ANTI-SLIP ABRASIVE METALS



NO. 1 ANCHOR  
FOR CONCRETE

**HOLES**  
COUNTERSUNK HOLES  
AS SPECIFIED FURNISHED



FERALUN NOT MADE LESS THAN 1/2" THICK  
BRONZALUN NOT MADE LESS THAN 3/8" THICK

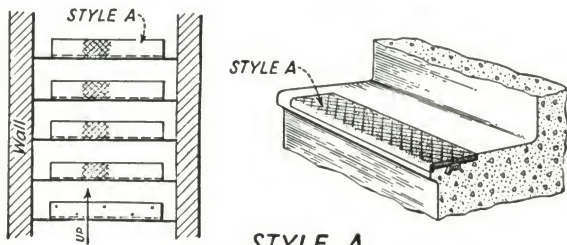
## ELEVATOR SILLS

STYLE V-2 TWO GROOVES AS SHOWN  
STYLE V-1 ONE GROOVE ONLY  
(TYPICAL CROSS SECTION SHOWN  
CAN BE MODIFIED TO MEET  
SPECIAL CONDITIONS.)

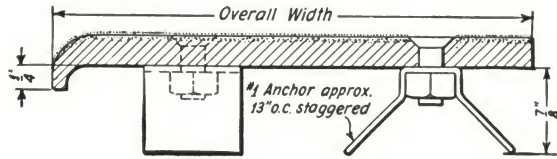
## RECOMMENDED PRACTICE

THICKNESS	FERALUN	BRONZALUN	ALUMALUN	NICALUN	LENGTH
1/4"	NOT MADE	UP TO 6" WIDE	UP TO 12" WIDE	UP TO 6" WIDE	NOT OVER 9'6" LONG.
5/16"	UP TO 6" WIDE	" " 10" "	" " 22" "	" " 10" "	WHEN WIDTH EXCEEDS 32", THEN LENGTH MUST NOT EXCEED 7'6".
3/8"	" " 12" "	" " 18" "	" " 30" "	" " 14" "	
7/16"	" " 24" "	" " 24" "	" " 44" "	" " 18" "	
1/2"	" " 32" "	" " 30" "	" " 44" "	" " 24" "	
5/8"	" " 44" "	" " 44" "	" " 44" "	" " 30" "	
3/4"	" " 44" "	" " 44" "	" " 44" "	" " 36" "	

**ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN**  
ANTI-SLIP PRODUCTS



**STYLE A**  
treads are usually 6" or 8" shorter than distance between walls or stringers.



**STYLE A**

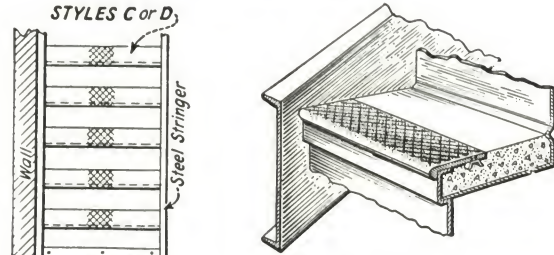
Recommended practice

Thickness	Feralun	Bronzalun	Nicalun	Alumalun	Length
1/4"	Not made	Up to 6" wide	Up to 6" wide	Up to 12" wide	Over 9'-6" made in sections, except when width exceeds 32', then length must not exceed 7'-6"
3/16"	Up to 6" wide	10"	10"	22"	
3/8"	12"	18"	14"	30"	
1/2"	24"	24"	18"	44"	
5/8"	32"	30"	24"	44"	
3/4"	44"	44"	30"	44"	
3/4"	44"	44"	36"	44"	

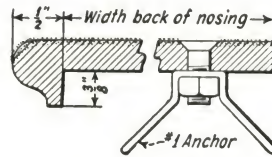
Treads for Concrete

PLATE 1

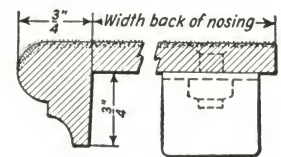
**ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN**  
ANTI-SLIP PRODUCTS



**STYLES C & D**  
extend from stringer to stringer



**STYLE C**



**STYLE D**

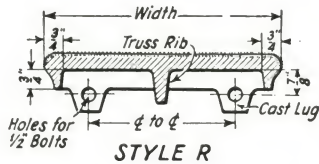
Recommended practice

Thickness	Feralun	Bronzalun	Nicalun	Alumalun	Length
1/4"	Not made	Up to 6" wide	Up to 6" wide	Up to 12" wide	Over 9'-6" made in sections, except when width exceeds 32', then length must not exceed 7'-6"
3/16"	Up to 6" wide	10"	10"	22"	
3/8"	12"	18"	14"	30"	
1/2"	24"	24"	18"	44"	
5/8"	32"	30"	24"	44"	
3/4"	44"	44"	30"	44"	
3/4"	44"	44"	36"	44"	

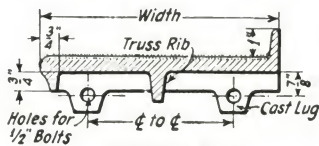
Treads for Pan-Filled Construction

PLATE 2

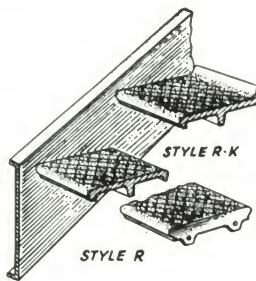
**ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN**  
ANTI-SLIP PRODUCTS



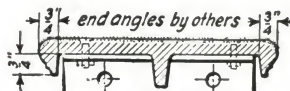
**STYLE R**



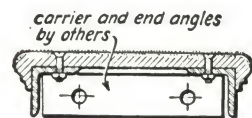
**STYLE R-K**



**STYLES R & R-K**  
with cast lugs for bolting treads direct to stringers.



**STYLE O-O**



**STYLE O-O**

When supported by longitudinal carrier angles Style O-O may be 3/8"

Recommended practice  
STYLES R, R-K & O-O

Thickness	Length
Not over 42" long	7/16"
" " 57" "	1/2"
For extra heavy loads submit inquiry.	

Hole Spacing R & R-K

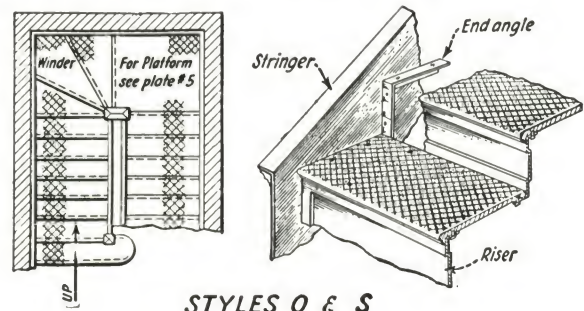
Width	5"	6"	7"	8"	9"	10"
ϕ to ϕ	2"	3"	3 1/2"	4"	5"	6"

ABOVE STYLES ALSO MADE WITH PERFORATIONS FOR DRAINAGE. FOR DETAILS SEE PLATE No. 11 OR SUBMIT INQUIRY

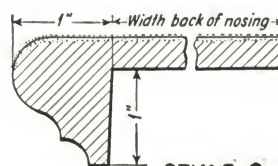
Structural Treads (no risers required)

PLATE 3

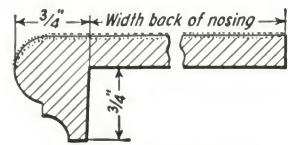
**ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN**  
ANTI-SLIP PRODUCTS



**STYLES O & S**  
with bent risers



**STYLE S**



**STYLE O**

Recommended practice for Feralun

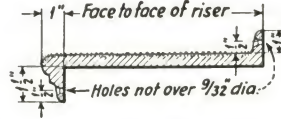
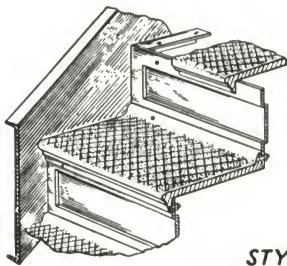
Thickness	Length
Up to 12" wide	3/8" Up to 9'-6" in one piece.
" " 24" "	7/16" " " " " " "
" " 32" "	1/2" " " " " " "
When over 1/2" thick see plate #1	

Structural Treads (risers required)

PLATE 4

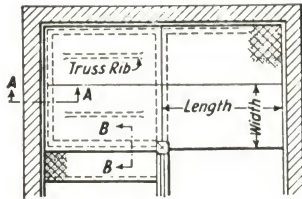


**ABRASIVE - METAL**  
**FERALUN BRONZALUN**  
**ALUMALUN NICALUN**  
ANTI - SLIP PRODUCTS

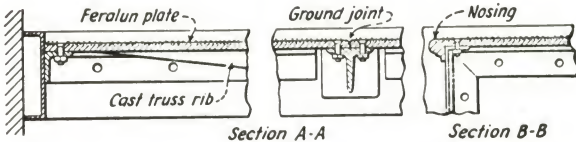


Note:  
Thicknesses as on plate #4

**STYLE K**  
with straight risers



Recommended practice  
Up to 32" wide 1/2" thick  
" 44" " 5/8"  
Plates not to exceed 44" x 80"  
(See Plate 1.)  
For extra heavy loads  
submit inquiry

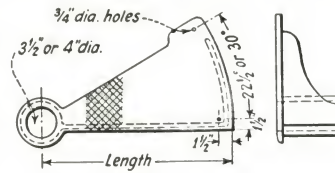


**PLATFORMS**

Structural Treads (risers required) - Platforms

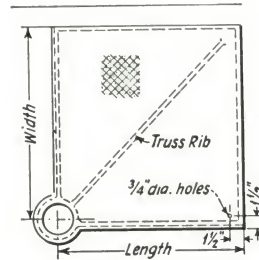
PLATE 5

**ABRASIVE - METAL**  
**FERALUN BRONZALUN**  
**ALUMALUN NICALUN**  
ANTI - SLIP PRODUCTS

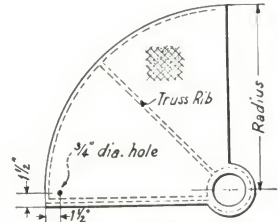


**SPIRAL TREAD**

Minimum height 8 1/4" to allow sufficient headroom.



**SPIRAL PLATFORM**  
SQUARE

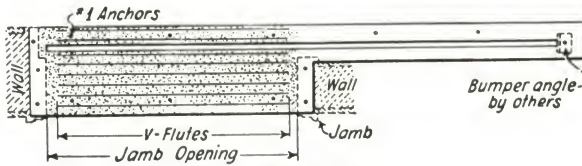


**SPIRAL PLATFORM**  
CIRCULAR

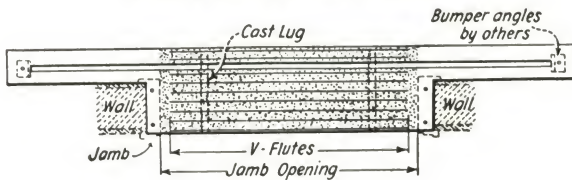
Spiral Treads

PLATE 6

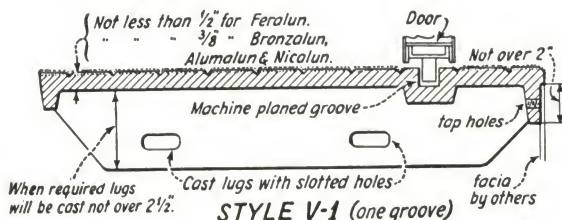
**ABRASIVE - METAL**  
**FERALUN BRONZALUN**  
**ALUMALUN NICALUN**  
ANTI - SLIP PRODUCTS



**STYLE V-1**  
for single speed type elevator enclosure



**STYLE V-1**  
for biparting type elevator enclosure



When required lugs will be cast not over 2 1/2".

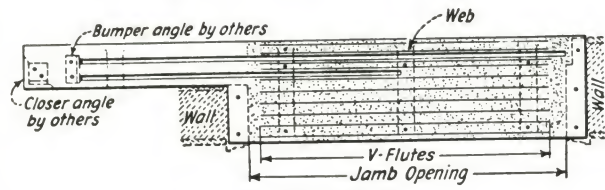
**STYLE V-1 (one groove)**

Sills over 9'-6" made in sections

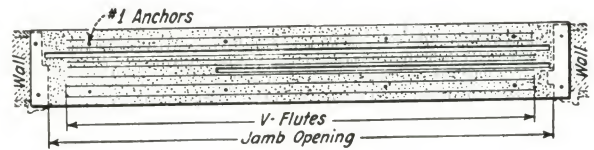
Elevator Door Sills

PLATE 7

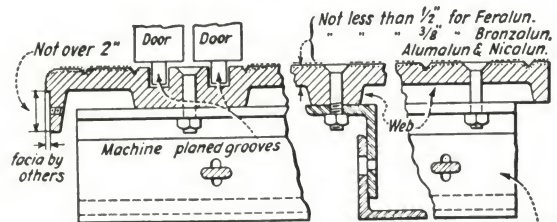
**ABRASIVE - METAL**  
**FERALUN BRONZALUN**  
**ALUMALUN NICALUN**  
ANTI - SLIP PRODUCTS



**STYLE V-2**  
for two speed type elevator enclosures



**STYLE V-2**  
for two speed and swing type elevator enclosures



Not over 2" facia by others

Not less than 1/2" for Feralun, 3/8" for Bronzalun, Alumalun & Nicalun.

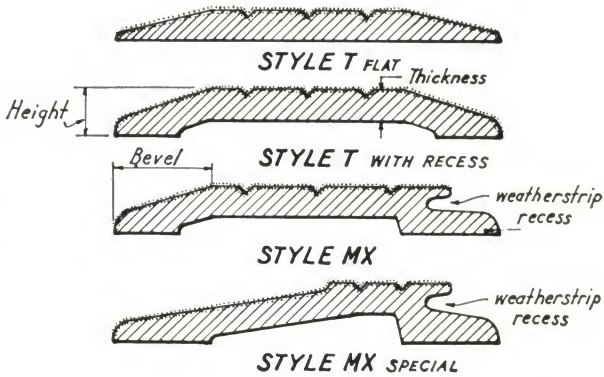
**STYLE V-2**

Sills over 9'-6" made in sections.

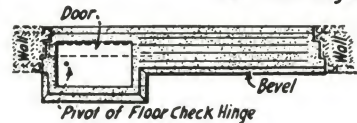
Elevator Door Sills

PLATE 8

ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN  
ANTI-SLIP PRODUCTS



**STYLE T**  
two floor hinge cutouts



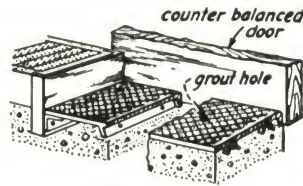
**STYLE T**  
one floor hinge cutout.

Recommended practice  
Usually  $\frac{1}{2}$ " high  
For thickness and  
width limitations  
see PLATE #1.

Door Saddles

PLATE 9

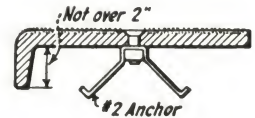
ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN  
ANTI-SLIP PRODUCTS



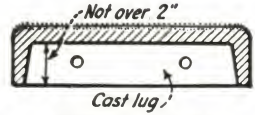
**STYLE W**  
for service elevator opening

Recommended practice

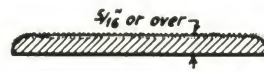
$\frac{1}{2}$ "	thick for Feralun
$\frac{3}{8}$ "	Bronzalun, Alumalun & Nicalun.
Over 9'-6"	made in sections



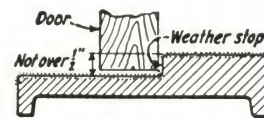
**STYLE W**



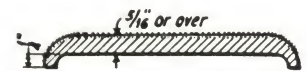
**STYLE W-W**



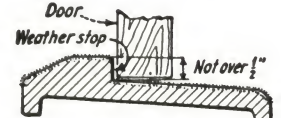
**STYLE L**



**STYLE M**  
Standard



**STYLE A-A**

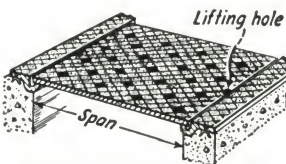


**STYLE M**  
Special

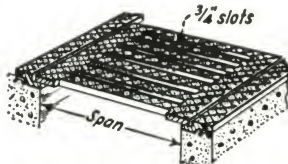
Door Saddles

PLATE 10

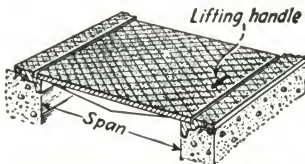
ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN  
ANTI-SLIP PRODUCTS



**DRAIN COVER & FRAME**  
with perforations



**DRAIN COVER & FRAME**  
with slots

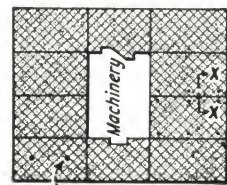


**TRENCH COVER & FRAME**

Recommended practice

Span up to	32"	$\frac{1}{2}$ " thick
" "	44"	$\frac{5}{8}$ "
" "	44"	$\frac{3}{4}$ "

Plates not to exceed 44x80  
For extra heavy loads  
submit inquiry



**FLOOR PLATES**  
for use on any flooring  
(concrete, wood, steel, etc.)

Section X-X



Alternate #1  
Wood sleepers  
with anchors



Alternate #2  
Machine screws  
tapped in channel

Recommended practice

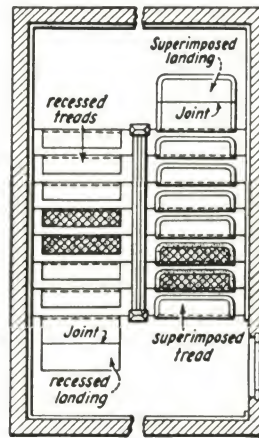
$\frac{1}{2}$ "	thick up to	32" x 54"
$\frac{5}{8}$ "	" "	44" x 60"
$\frac{3}{4}$ "	" "	44" x 80"

( See Plate 1.)

Floor Plates - Trench Covers

PLATE 11

ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN  
ANTI-SLIP PRODUCTS



Plan No. 2

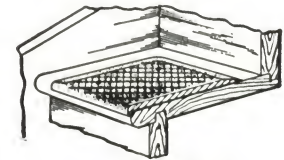
Plan No. 1

Notes:-

Plan No. 1 shows superimposed  
treads with back edge and  
ends bevelled.

Plan No. 2 shows recessed  
treads with back edge and  
ends squared.

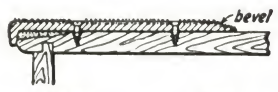
Recommended Practice:-  
Treads should extend to within  
 $2\frac{1}{2}$ " of riser and stringers.



**STYLE A**  
for new or slightly used treads



**STYLE A**  
recessed in treads



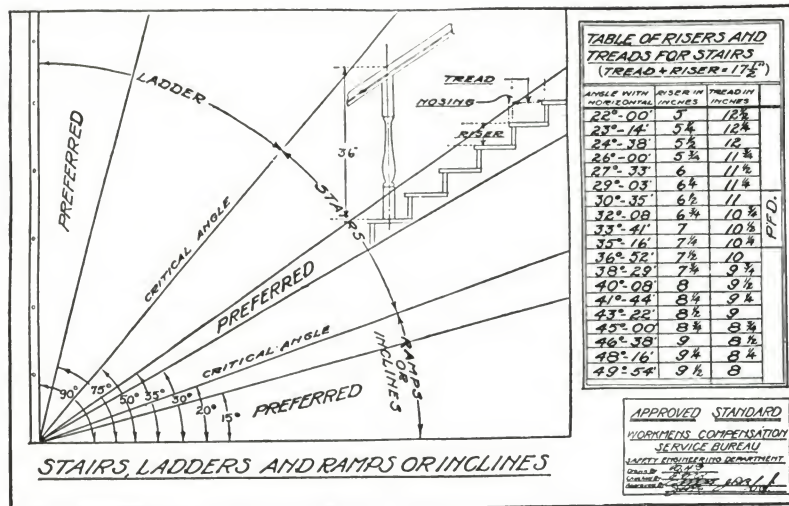
**STYLE A** - long lip  
for worn wood or marble treads  
maximum depth of lip 2" from  
underside of tread.



**STYLE A**  
for worn iron treads.

Treads for Repair Work

PLATE 12



Correct Angles for Ladders, Stairs and Ramps

## Specifications for Anti-Slip Safety Treads

**Safety Treads**—All concrete and cement finished steps shall be provided with Feralun Anti-Slip Treads, Style (A, C or D) as made by the AMERICAN ABRASIVE METALS Co. Treads on cement finished steps, pan-filled type, shall be (4 or 6 in.) wide and shall extend the full length of the step. Style A treads on concrete steps shall be (4 or 6 in.) wide and extend to within (3 or 4 in.) of the stringers. Style (C or D) treads shall be (4, 4 1/2, 6 or 7 1/2 in.) wide and shall extend the full length of the step. The surface of the treads shall be kept free of cement.

**Steel Stairs With Risers**—Steel stairs with risers shall be equipped with Feralun Anti-Slip Treads, Style (O, S or K) as made by the AMERICAN ABRASIVE METALS Co. as shown on drawings. Platforms and landings shall be of Feralun of suitable thickness for span required, not less than 7/16 in.

**Steel Stairs Without Risers**—Steel stairs without risers shall be equipped with Feralun Anti-Slip Treads as made by the AMERICAN ABRASIVE METALS Co. and be Style (R or K) (6, 8, 9 or 10 in.) wide, with end lugs bolted directly to the stringers, or Style 0-0 bolted to carrier angles attached to the stringers. (See Plate 3 for required thickness.)

**Spiral Stairs**—Spiral treads and platforms shall be of Feralun as made by the AMERICAN ABRASIVE METALS Co. They shall be of stock pattern to suit conditions. (See Plate 6.)

**Door Saddles**—Exterior entrance, fire and roof doors shall be provided with saddles of (Feralun, Alumalun,

Bronzalun, Nicalun) anti-slip material as made by the AMERICAN ABRASIVE METALS Co., Style (T, L or M). When required, saddles shall be cast to receive floor check hinges. Style M saddles shall be made with rebate to act as weather stop.

Interior doors shall be provided with (Feralun, Bronzalun, Alumalun, Nicalun) anti-slip saddles, Style (T, L or A-A) with (fluted, plain or hatched) surface. Saddles shall be full width of partition wall and shall extend the full width of door openings between jambs.

**Elevator Door Sills**—Passenger elevator door openings shall be provided with sills of (Feralun, Bronzalun, Nicalun) anti-slip material as made by the AMERICAN ABRASIVE METALS Co. Sills for sliding doors shall have machined grooves and machined recess for lip on the shaft side to receive facia plate. Sills for sliding doors shall be full width of wall thickness.

Freight elevator door openings shall be provided with sills of Feralun anti-slip material, Style W, with lip extending down the shaft side. They shall be full width of the wall thickness.

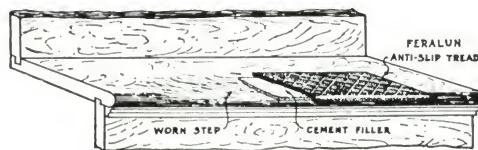
**Floor Plates**—Floor plates shall be of Feralun anti-slip material as made by the AMERICAN ABRASIVE METALS Co. Plates shall be cast with truss ribs and be of sufficient thickness to support a live load (state pounds) per square foot.

Trench Covers and Frames as indicated on the plans shall be made of Feralun anti-slip material of the dimensions and thicknesses shown on the detailed drawings.

## Feralun for Repair of Worn Stairs

Worn stairs of wood, terrazzo, marble, slate or other materials can be made safe and greatly improved in appearance by the use of appropriate abrasive metal castings, Feralun, Bronzalun, Alumalun or Nicalun, at a cost for installation that is surprisingly low.

Cast in any size or shape desired, treads for repair work are furnished with a deep lip to cover worn depressions and irregularities in old steps, and with beveled back and ends when the entire surface of exist-



Detail of Repair

ing tread is covered. When repair nosings are to be used in connection with linoleum, or when recesses are provided, the back and ends will be furnished square or slightly undercut. Necessary anchorage is obtained by wood screws or expansion bolts, depending upon the surface covered.

Quick-drying magnesite cement is recommended for use in leveling up worn steps. (See page 6, Plate 12.)

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**FERALUN**

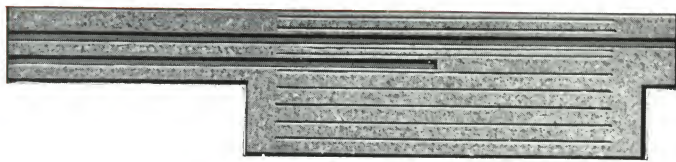
**BRONZALUN**

**ALUMALUN**

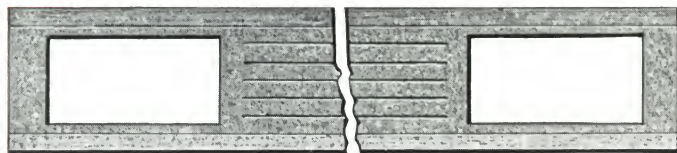
**NICALUN**

**ENAMALUN**

*Abrasive Metal  
Anti-Slip Products*



Style V2—Two Speed Door



Style T—With Floor Hinge Cut Out

**B**RONZALUN AND NICALUN are extensively used for treads, elevator door sills and saddles where appearance is a factor to be considered. They are made in the same manner and of the same grade of materials as Feralun except for the matrix. They have the same durability, safety, uses and quality as Feralun, and are made in the same forms and with the same approvals. Both have the same electric furnace product embedded in the surface and nosing to produce the same anti-slip, non-wearing quality of Feralun.

Products made from these materials are manufactured to specification. Two suggested styles are given above to show usual forms which have been produced to fulfill certain requirements. These and many others are made and have proven highly satisfactory. (See detail sheets, Plates 7, 8, 9 and 10.)

Bronzalun is used generally where there is a desire for such a shade to be in keeping with the general decorative scheme. It has been found very satisfactory where trim, fixtures or the general decorative scheme is in black, bronze, brass or gold.

Nicalun provides architectural beauty as well as anti-slip effectiveness and durability. It has a bright appearance and resists corrosion. It is particularly desirable for use with marble trim and in highly modern ornamental locations where a silver-white color harmonizes. See details on page 9, Plates 7 and 8.